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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/615,049	07/09/2003	Tsuyoshi Maeda	115906 1052		
7:	590 04/20/2005		EXAMINER		
OLIFF & BERRIDGE, PLC			DUDEK, JAMES A		
P.O. Box 19928 Alexandria, VA 22320			ART UNIT	PAPER NUMBER	
Alexandra, VA 22320			2871		

DATE MAILED: 04/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)				
				MAEDA, TSUYOSH	1			
Office Action Summary		10/615,04 Examiner	9	Art Unit	<u> </u>			
	,		Dudok	2871				
	The MAILING DATE of this commur	James A. I			'9SS			
Period for		noution appour o on the						
THE MA - Extension after Silver - If the per - If NO per - Failure - Any rep	RTENED STATUTORY PERIOD F AILING DATE OF THIS COMMUN ons of time may be available under the provisions K (6) MONTHS from the mailing date of this corni riod for reply specified above is less than thirty (3 briod for reply is specified above, the maximum si to reply within the set or extended period for reply by received by the Office later than three months patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no evenunication. s0) days, a reply within the statutatutory period will apply and with the statutery between the apply will, by statute, cause the apply.	int, however, may a reply be tim story minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this com D. (35 U.S.C. § 133).	munication.			
Status								
1)□ R	esponsive to communication(s) file	ed on .						
· · · <u> </u>	This action is FINAL . 2b) ☐ This action is non-final.							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	n of Claims							
4a 5)□ C 6)⊠ C 7)□ C	claim(s) <u>1-5</u> is/are pending in the analysis of the above claim(s) is/acceptaim(s) is/acceptaim(s) is/are allowed. Claim(s) <u>1-5</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	are withdrawn from cor						
Application	n Papers							
9)□ TI	ne specification is objected to by th	e Examiner.						
•	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	pplicant may not request that any obje	** *	•					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority un	der 35 U.S.C. § 119							
a)⊠ 1 2 3	cknowledgment is made of a claim All b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internation the attached detailed Office action	documents have bee documents have bee of the priority docume onal Bureau (PCT Rule	n received. n received in Application ents have been receive e 17.2(a)).	on No ed in this National St	tage			
Attachment(s	•							
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (I	PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) 🔲 Informa	tion Disclosure Statement(s) (PTO-1449 or lo(s)/Mail Date		5) Notice of Informal P 6) Other:		52)			

Art Unit: 2871

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6734935 ("935").

935 teaches liquid crystal display device, comprising: a first substrate; a second substrate [310,160]; a liquid crystal layer sandwiched between the first substrate and the second substrate [60]; transmissive display areas through which light incident from an outer surface of the first substrate is transmitted to perform transmissive display [291]; reflective display areas from which light incident from an outer surface of the second substrate is reflected to perform reflective display [290]; a reflective film disposed in the reflective display areas [290]; and a thickness-adjusting layer to adjust a thickness of the liquid crystal layer, disposed on an inner surface of at least one of the first substrate and the second substrate [360], such that the liquid crystal layer is thinner in the reflective display areas than in the transmissive areas, an edge portion of the reflective film lying in a boundary area between the transmissive display area and

the reflective display area, the edge portion having an upper surface serving as a mirror reflective surface [see tapered boundary, figure 5 and figure 7].

935 teaches the liquid crystal display device according to claim 1, but lacks the reflective film including a light-scattering device to scatter reflected light, except on the part serving as the mirror reflective surface. However, it was well known to provide a reflecting display with a scattering surface to decrease parallax. Accordingly it would have been obvious to one of ordinary skill at the time of invention to combine a scattering surface with 935.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Response to Arguments

Applicant's arguments filed 12/29/04 have been fully considered but they are not persuasive. Reflecting electrode 290 shown in figure 8 is a mirror and located in the boundary between the transmissive portion and reflective portion. Regarding the diffuse surface see the rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The examiner can normally be reached on 9:00-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James A. Dudek Primary Examiner Art Unit 2871 Page 4